FIG. 1

```
tccaaaacccgaggtctcgctaaaatcatcatggattcacttggcgccgtcagcactcga   60
                            M  D  S  L  G  A  V  S  T  R      10
cttgggtttgatctttcaaagagctgaagaaaacaaatgatggcaacatcttctttcc    120
 L  G  F  D  L  F  K  E  L  K  K  T  N  D  G  N  I  F  F  S    30
cctgtgggcatcttgactgcaattggcatggtcctcctggggacccgaggagccaccgct   180
 P  V  G  I  L  T  A  I  G  M  V  L  L  G  T  R  G  A  T  A    50
ccccagttggaggaggtgtttcactctgaaaaagagacgaagagctcaagaataaaggct   240
 S  Q  L  E  E  V  F  H  S  E  K  E  T  K  S  S  R  I  K  A    70
gaagaaaaagaggtgattgagaacacagaagcagtacatcaacaattccaaaagttttg    300
 E  E  K  E  V  I  E  N  T  E  A  V  H  Q  Q  F  Q  K  F  L    90
actgaaataagcaaactcactaatgattatgaactgaacataaccaacaggctgtttgga   360
 T  E  I  S  K  L  T  N  D  Y  E  L  N  I  T  N  R  L  F  G    110
gaaaaaacatacctcttccttcaaaaatacttagattatgttgaaaaatattatcatgca   420
 E  K  T  Y  L  F  L  Q  K  Y  L  D  Y  V  E  K  Y  Y  H  A    130
tctctggaacctgttgattttgtaaatgcagccgatgaaagtcgaaagaagattaattcc   480
 S  L  E  P  V  D  F  V  N  A  A  D  E  S  R  K  K  I  N  S    150
tgggttgaaagcaaaacaaatgaaaaaatcaaggacttgttcccagatggctctattagt   540
 W  V  E  S  K  T  N  E  K  I  K  D  L  F  P  D  G  S  I  S    170
agctctaccaagctggtgctggtgaacatggtttatttaaagggcaatgggacagggag   600
 S  S  T  K  L  V  L  V  N  M  V  Y  F  K  G  Q  W  D  R  E    190
tttaagaaagaaaatactaaggaagagaaattttggatgaataagagcacaagtaaatct   660
 F  K  K  E  N  T  K  E  E  F  W  M  N  K  S  T  S  K  S    210
gtacagatgatgacacagagccattcctttagcttcactttcctggaggacttgcaggcc   720
 V  Q  M  M  T  Q  S  H  S  F  S  F  T  F  L  E  D  L  Q  A    230
aaaattctagggattccatataaaaacaacgacctaagcatgtttgtgcttctgcccaac   780
 K  I  L  G  I  P  Y  K  N  N  D  L  S  M  F  V  L  L  P  N    250
gacatcgatggcctggagaagataatagataaaataagtcctgagaaattggtagagtgg   840
 D  I  D  G  L  E  K  I  I  D  K  I  S  P  E  K  L  V  E  W    270
actagtccaggcatatggaagaaagaaaggtgaatctgcacttgccccggtttgaggtg   900
 T  S  P  G  H  M  E  E  R  K  V  N  L  H  L  P  R  F  E  V    290
gaggacagttacgatctagaggcggtcctggctgccatggggatgggcgatgccttcagt   960
 E  D  S  Y  D  L  E  A  V  L  A  A  M  G  M  G  D  A  F  S    310
gagcacaaagccgactactcgggaatgtcgtcaggctccgggttgtacgcccagaagttc   1020
 E  H  K  A  D  Y  S  G  M  S  S  G  S  G  L  Y  A  Q  K  F    330
ctgcacagttcctttgtggcagtaactgaggaaggcaccgaggctgcagctgccaccggc   1080
 L  H  S  S  F  V  A  V  T  E  E  G  T  E  A  A  A  T  G      350
ataggctttactgtcacatccgccccaggtcatgaaaatgttcactgcaatcatcccttc   1140
 I  G  F  T  V  T  S  A  P  G  H  E  N  V  H  C  N  H  P  F    370
ctgttcttcatcaggcacaatgaatccaacagcatcctcttcttcggcagattttcttct   1200
 L  F  F  I  R  H  N  E  S  N  S  I  L  F  F  G  R  F  S  S    390
ccttaagatgatcgttgccatggcattgctgcttttagcaaaaaacaactaccagtggta   1260
 P  Stop                                                       391
ctcatatgaatatgaaaat                                            1279
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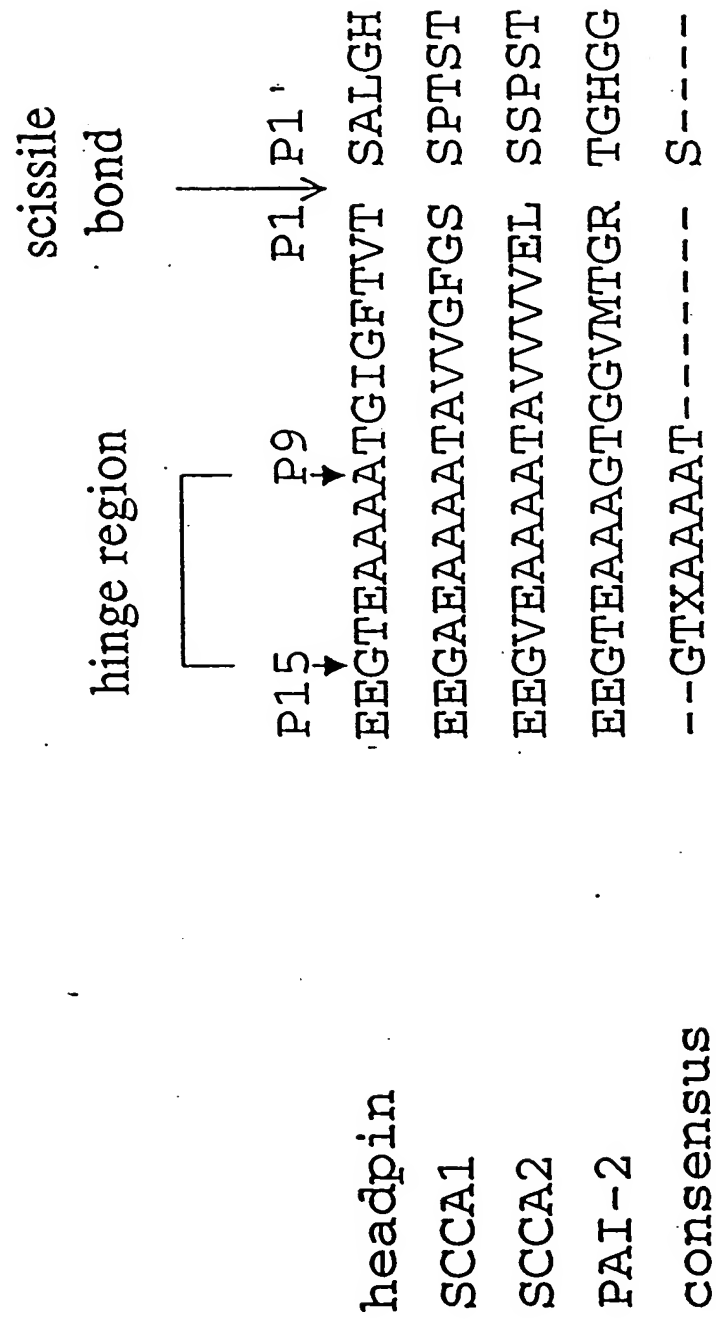
FIG. 2

	hinge region	scissile bond
	P15 P9	P1 P1'
headpin	EEGTEAAAATGIGFTVT	SALGH
SCCA1	EEGAEAAATAVVGFGS	SPTST
SCCA2	EEGVEAAAATAVVVVEL	SSPST
PAI-2	EEGTEAAAGTGGVMTGR	TGHGG
consensus	--GTXAAAAT------	S----

FIG. 3

WI-4461

headpin

CHLC.GATA2E06

WI-9222

18q21.3